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Synthesis of the azapodands with phosphoryl terminal groups

Gaynullin A., Davletshina N., Davletshin R., Garifzyanov A., Cherkasov R.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2016 Taylor & Francis Group, LLC.New lipophilic phosphorylated azapodands with different substituents at the nitrogen atom were synthesized via the Kabachnik–Fields reaction in the three-component system: di-p-tolylphosphinous acid– formaldehyde–1,8-diamino-3-6-dioxaoctane. The reaction was carried out in toluene or acetonitrile media, with p-toluenesulfonic acid acting as a catalyst.

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Keywords

Kabachnik-Fields reaction, phosphorylated azapodands, synthesis